manufacturer:

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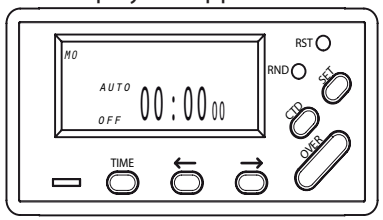
TIMER USER MANUAL

What this timer does-
This timer can be used to turn heaters on and off on a weekly cycle. It has programmable On/Off times with optional random switching variations or it can be used as a countdown timer.

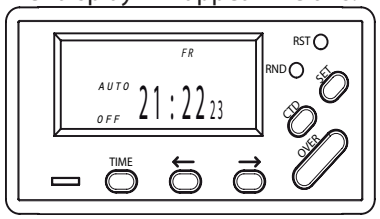
Before starting-
Plug the heater into the wall outlet for at least10 minutes to charge the internal timer battery. The internal battery maintains current time and programs during power outages.
Follow the instructions below to program the timer.
The red ON or OFF indicator light is illuminated when power is available at the timer. When this light is on the heater should also be on (if the ambient temperature is low)

The timer display will appear like this:



Setting the current time and day-
1. If this is the first time setting the timer reset the timer by pressing RST with a pointed object otherwise skip this step.
2. Select between a 12 hr display (with AM & PM) or a 24 hr display. To switch the display: press and hold TIME for three seconds."12:00am" denotes the 12-hour clock.
3. Begin to set the current time by pressing and holding SET (select) until "MO"(Monday) flashes. Use ← or → to select the current day.
4. Momentarily press SET. The hour digits will begin flashing. Use ← or → to select current hour. Ensure that current hour is AM or PM.
5. Momentarily press SET. The minute digits will begin flashing. Use ← or → to select current minute.
6. Momentarily press SET again and the current time is now set.

The timer display will appear like this:

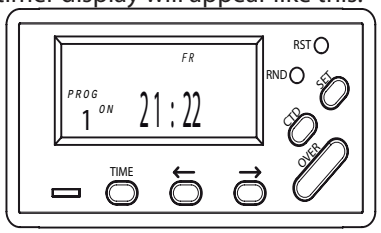


Programs and Features-
This section will demonstrate how to set a programmed "ON" time and an "OFF" time. In this case, program (PROG1) will be used however this timer can store up to 20 ON/OFF programs which are active over a week of time.

How to set an "ON" time:
1. Press → to select PROG 1 ON. "1 ON" will be flashing.
2. Press SET and the day grouping will begin to flash. Use ← or → to select either a single day or day-group. The possible selections follow:
MO or TU or WE or TH or FR or SA or SU (each day separate)
MO through FR (program runs each day Monday through Friday)
SA and SU (program runs only on Saturday and Sunday)
MO through SA (program same each day Monday through Saturday)

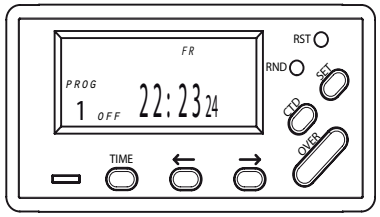
MO, WE, FR (program runs on Monday and Wednesday and Friday)
MO through WE (program runs Monday through Wednesday)
TH through SA (program runs Thursday through Saturday)
MO through SU (program runs every day of the week)
3. Press SET and the hour digits will begin to flash. Use ← or → to select the desired hour for the timer to "turn on". Note AM or PM.
4. Press SET and the minute digits will begin to flash. Use ← or → to select the desired minute.

The timer display will appear like this:



5. To finish programming the "ON" time press TIME.

How to set an "OFF" time:
1. From the regular screen (depicting the current day and time) repeatedly press → until PROG 1 OFF is selected. "1 OFF" will be flashing.
2. Press SET and the day grouping will begin to flash. Use ← or → to match the same day or day groupings previously selected for the "ON" times.
3. Press SET and the hour digits will begin to flash. Use ← or → to select the desired hour for the timer to "turn off". Note AM or PM.
4. Press SET and the minute digits will begin to flash. Use ← or → to select the desired minute.
The timer display will appear like this:



5. To finish programming the "OFF" time press TIME.

To set additional On/Off times:
1. To set other on/off times scroll through the programs (PROG 1- PROG 20) by pressing → repeatedly.
2. Select an available program and follow steps in the above sections to set additional "On/Off" times. Don`t forget that in the instructions PROG 1 would change to whichever program being worked with. For example, if working with program 2 "PROG 1 ON" would change to "PROG 2 ON" and "PROG 1 OFF" would change to "PROG 2 OFF".

To review each On/Off program:
To scroll through the programs repeatedly press → noting the day/day-group and time for the timer to turn "on" or "off". This feature is especially helpful if many on/off times have been programmed on different days/day groups. It is recommended that you write down when each program turns the heater "on" and "off" along with the program day/day-group to prevent confusion.

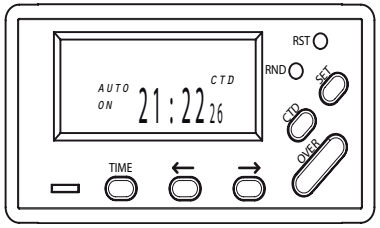
To manually override the programs:
During normal use there may be times when one needs to override the programmed On/Off times. This allows the user to bypass the programmed On/Off times without changing the programs. The manual override button is the large button on the right labelled "OVER". Repeated pressing this button causes the display to scroll from ON to AUTO ON to OFF to AUTO OFF.

When ON is selected, the red light will turn "ON" immediately and remain "ON" despite any programs set.
When AUTO ON is selected, the red light will turn "ON" immediately but the programs will remain running to turn the heater on/off as programmed.
When OFF is selected, the red light will turn "off" immediately and remain "off" despite any programs previously set.
When AUTO OFF is selected, the red light will turn "off" immediately but the programs will remain running to turn the heater on/off as programmed.

Random Switching:
After the program(s) are set, the random feature can turn the heater on/off within 0 to 30 minutes of the programmed time.
To activate- press RND with a small pointed object such as a pencil. The display will show "RND" indicating that the random program is now active.
To deactivate- press RND again and the "RND" will disappear from the display.

24 Hour Countdown Switching:
This is a separate feature from setting programs as described above and will temporarily override the programmed On/Off settings. It allows the heater to remain "on" for a set period of time up to 24 hours and then cut off.

1. Press ← and the display will clear and "ON" will begin to flash and "CTD" will illuminate.
2. Press SET and the hour digits will begin to flash. Select the hours for the countdown using ← or →.
3. Press SET and the minute digits will begin to flash. Select the minutes for the count-down using ← or →.
4. Press SET and the second digits will begin to flash. Select seconds for the countdown using ← or →.
5. Press SET and the "ON" will begin to flash in the display. Next press CTD to begin the countdown "AUTO ON" will be displayed as the countdown proceeds.
The timer display will appear like this:



Note: To stop the countdown press CTD then press TIME to exit the countdown mode.

To reset the timer:
Pressing the RST button with a pointed object like a pencil will clear all programs and current time. This is sometimes useful when you are about to reprogram the timer.